PROVISUAL
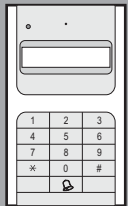**CCTV & Security Distributor**

Integrated Access Controller
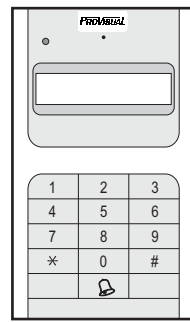
User Manual

AC-930P

Read the manual before usage and keep for future reference.

http://www.provisualusa.com   CE FC MA

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1. Model and Appearance

AC-930P

1.1 Structure and Appearance design of Provisual AC-930P are patented and any sort/form of copy and counterfeit will be charged.
1.2 Color: pure black, black decorated with silver
1.3 Size: L×W×H (mm): 150×88×30

2. Important Notices

⚠ Failure to follow the instructions below may lead to the malfunction of the system, property damage and even physical injury.

2.1 Connection and operation on any components or the controller with power on is strictly prohibited.
2.2 Connect the system according to the instructions described in this manual.
2.3 The RS232 cable connected to the computer should be no more than 15 meters.
2.4 The RS485 cable connected to the computer should be no more than 1200m.
2.5 Please use the specified power supply.
2.6 The communication mode between the controller and computer should be either RS232 or RS485.

2.7 When RS485 mode is applied, a highway can connect maximally 32 controllers with identification address differs from each other.

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3. Product Parameters

3.1 Electric Parameters
Working Voltage: DC9-15V   Anti-static Capability: ≥15KV
Static Current: ≤110mA   Relative Humidity: 0%-95%
Input Interface: Stem joint switch input   Working Temperature:-10℃ to 55℃
Drive Capability: 2 groups of Type C Relay output, DC12V/3A
Power-off Protection: Data will be preserved for 10 years when power off
3.2 Type of Card : EM card or compatible EM Card
3.3 I/O Interface: 2 groups of switch input, 1 group anti-disassemble alarm input, 1 exterior card interface, 2 groups of output interfaces, DC12/3A
3.4 Network Interface: RS232/RS485 interface
Communication Rate: 9600bps
3.5 Display Mode: 2X18 LCD display , Language: English\Chinese.
3.6 System Capacity and Main Functions
Number of Card Holder: 3000
Number of Records: 8200 pcs
Entrance/Exit Mode:
——Card alone ——Card plus Password
——Password alone ——Initial Card Open
——Multiple Card Open (2≤N≤4)
——Remote Open ——Forced Open
Multiple and programmable working modes:
——Normal Open
——Forced Close
——Identification after Card-presenting (Door will be opened only after the card holder is identified by the control center)
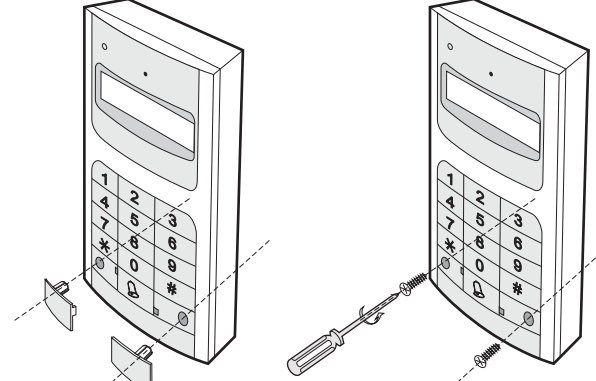——Anti-passback function
Multiple access group and working hour setup
——Every controller supports 42 access groups
——Support 20 groups of schedule
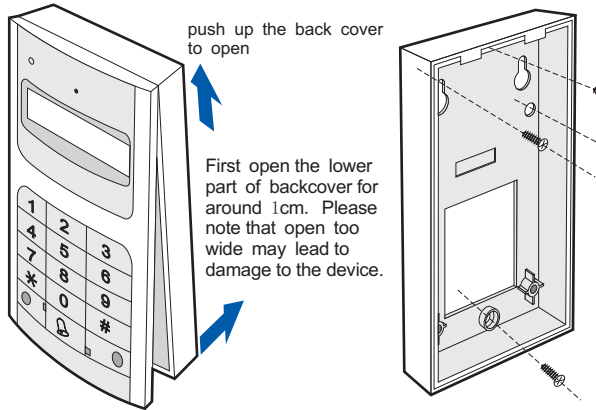——Support 32 groups of annual holiday setup
Protection
——All inputs are equipped with imported TVS protection
——Voltage clamp protection
——All outputs adopt spark depress circuit and absorption circuit

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4. Installation Instruction

4.1 Remove the two keys first.   4.2 Unfasten the two screws.

push up the back cover to open

First open the lower part of backcover for around 1cm. Please note that open too wide may lead to damage to the device.
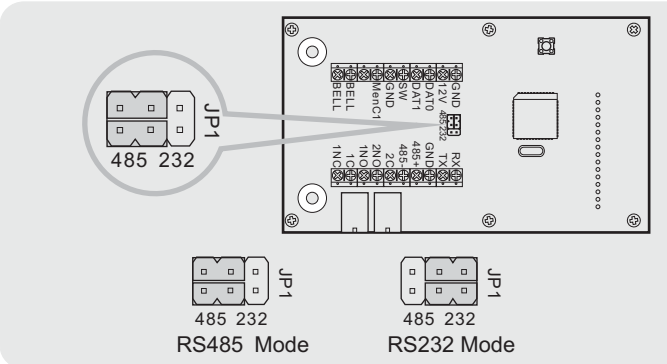
4.3 Open the back cover and connect the device according to the wiring diagram.
4.4 Fix the backcover on the wall and reassemble the device. (according to 4.1, 4.2 and 4.3 in reversed order)
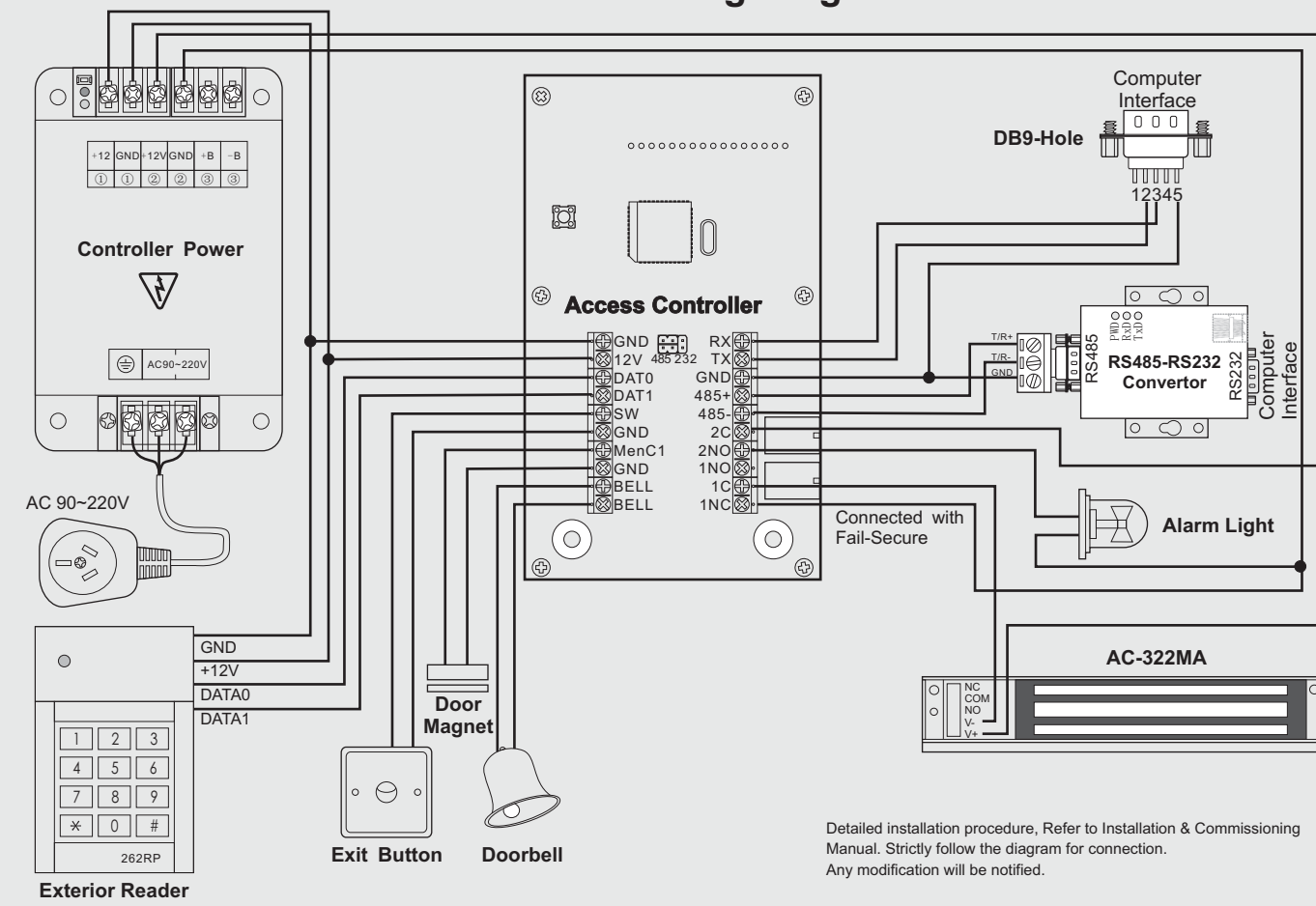
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5. Communication Mode Setup

Change the communication mode with computer by changing the jumper-wire in jumper JP1.

485 232   485 232
JP1   JP1
RS485 Mode   RS232 Mode

6.Rules for Installation

6.1 Selection of exterior components may be based on installation environment. However, the selection should be in accordance to existing National and International Standards as well as matched with the controller. A careful study on the instructions on exterior components selection is strongly advised.
6.2 Installation of the control unit (including microprocessor) should not be inside the high-voltage box or near any large converter or high voltage/current devices. The components should be installed in places easy for uninstallation in order for convenient maintenance.
6.3 The controller board should be connected to earth independently. Please ensure that grounding has been provided in the installation site.
6.4 When installing the box with microprocessors inside, please ensure that the screw and lock has been fastened.
6.5 The 220v terminal power cable should be plugged in separate power supply socket (the power cable should not share the socket with other devices) with grounding ensured.
6.6 Do not crossover the system cables through other devices.
6.7 All components should not be installed in places with excess high/low temperature or humidity.

Controller Wiring Diagram

Detailed installation procedure, Refer to Installation & Commissioning Manual. Strictly follow the diagram for connection. Any modification will be notified.

7.Instruction for Keypad Function

Sound Indication：
Device sounds once is keypad input；device sounds twice continuously means error or exit.

Accessing the Menu：
Press * then LCD displays English and Chinese, select the language:
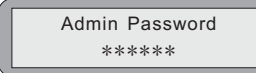
1. Chinese
2. English

Press "1" or "2" to select the type of language

Keypad Edit:
Input password or password+card and wait for 6 seconds.

7.1 Enter Edit Mode
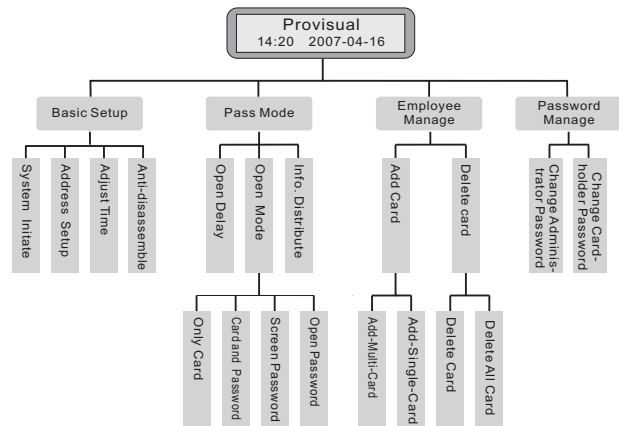Input the 6-digit administrator password (default password is 000000)

Admin Password
* * * * * *

The device enters "Edit" if password is correct；otherwise, device sounds twice and returns to last screen if password is wrong.
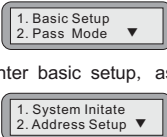
1. Basic Setup
2. Pass Mode ▼

"▼" shows there are other pages to be shown, you can use key 6 and key 9 for moving the page. 6 for page up and 9 for page down.

Once device enters edit menu, the user can setup the controller. Push # to return to upper level menu. For setup hierarchy, please note the following:
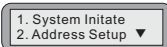

7.2 Basic Setup
Basic setup includes: system initiation, address setup, anti-disassemble setup, time adjustment. Input administrator password and enter lever 1 menu of edit.
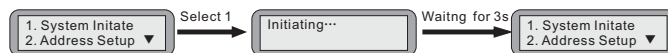
1. Basic Setup
2. Pass Mode ▼

Push "1" to enter basic setup, as following:

1. System Initiate
2. Address Setup ▼

7.2.1 System Initiation
System initiation will clear all original setup of the controller (including pass mode setup, basic setup, all keypad-added card, password etc. however, administrator setup will not be changed).

When initiation finished, the device returns to last screen. System initiation will clear all original setup of the controller and should be applied carefully.
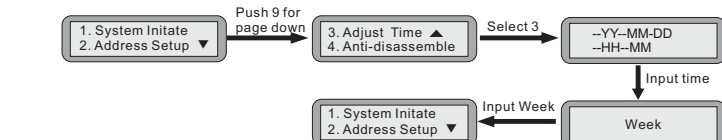
7.2.2 Address Setup
Address is applied to differentiate the controller from any other devices on the network. An address within a single 485 network should be unique. Address ranges from 00 to 39.

Initiation address is 00: input the new address and return. The device sounds twice and returns in case of wrong input.

7.2.3 Time Adjustment
Time adjustment is to synchronize time of controller with real time. The time can also be setup off-line. (Only 2-digit of year can be inputted): week format (01-07);
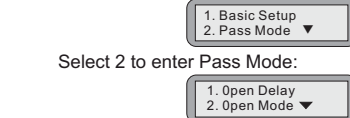
7.2.4 Anti-disassemble Alarm
Anti-disassemble alarm is applied to protect controller from being disassembled or damaged.
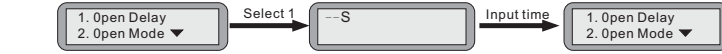
7.3 Pass Mode
This function is used to define the mode of pass, Door-open delay and information distribution. There are three modes: card, card + password and password. For card+password and password mode, the door-open password and cardholder password are the same.

1. Basic Setup
2. Pass Mode ▼

Select 2 to enter Pass Mode:
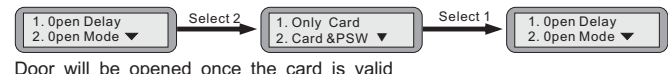
1. Open Delay
2. Open Mode ▼

7.3.1 Door-open Delay
Door-open delay is the duration from the time door is opened to the time the door automatically closes. (Duration ranges from 00-99n seconds)
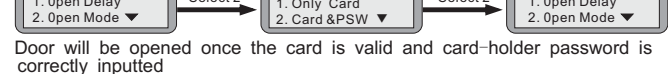
7.3.2 Door-open Mode
This function is used to define the mode of door-open, including three modes: card, card + password and password. For card+password and password mode, the door-open password and card-holder password are the same.
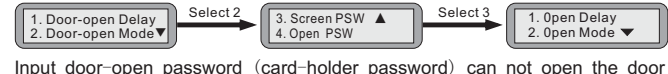
Open by Card
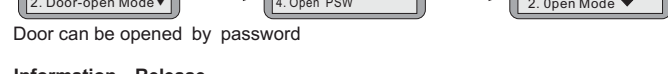Door will be opened once the card is valid

Open by Card and Password
Door will be opened once the card is valid and card-holder password is correctly inputted

Screen Password
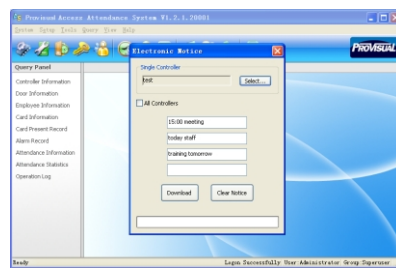Input door-open password (card-holder password) can not open the door
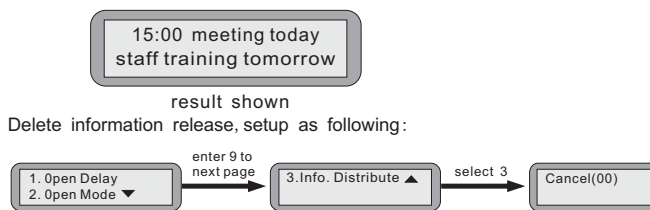
Activate Password
Door can be opened by password

7.3.3 Information Release
Information release refers to use the LCD of integrated access controller to display some information.(such as meeting information,overtime information and so on) Management software can be used to enter the information publish settings.
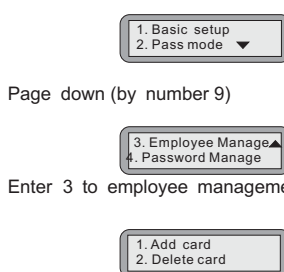(tools→LCD display design) As shown below:

Download the message to device after inputting the message in software. This function is applied to AC-930P only. There can be max. 9 Chinese characters and 18 English letters for each row.

15:00 meeting today
staff training tomorrow

result shown

Delete information release, setup as following:

Enter 00 to delete setup and return to the default setup. Information can also be deleted from software.

7.4 Employee management
This function enables the user to add or delete card holders by the integrated access controller without connecting to computer.Max 1500 cards/card-holders can be managed in off-line manage mode.There is no conflict between off-line cards and cards read by computer. The off-line card possesses top authority and is not affected by such functions as multiple card,initial card,remote control,anti-passback and access level.
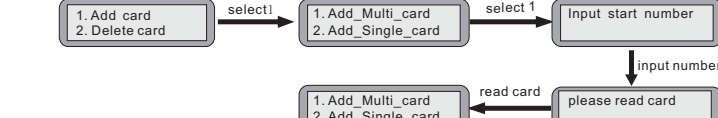
Page down (by number 9)

Enter 3 to employee management

1. Add card
2. Delete card

7.4.1 Add card
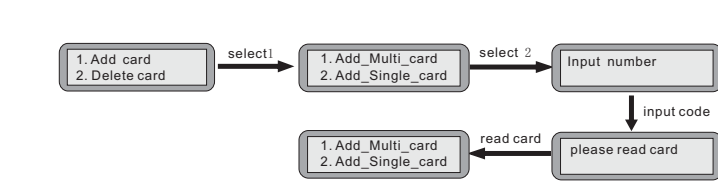Add card includes add multiple cards and add single card .

Add multiple cards
A number of cards can be registered in the device, with a defined number. The second card will be assigned with a number next to the number defined to the

7.4.2 Delete card
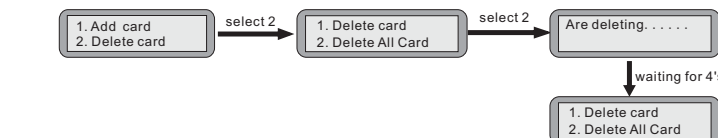Delete card includes : delete single card and delete all cards.

Delete single card
Specify code and delete. One time one card can be deleted.

Delete all cards
Delete all cards will render all cards set by keyboard into illegal cards,system initiation will clear all cards and should be applied carefully.
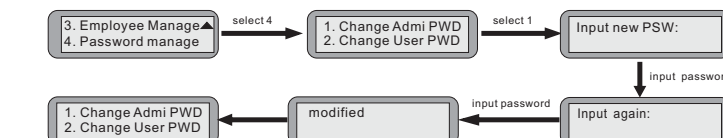
7.5 Password management
Password management refers to the management of administrator password and card-holder password.Administrator password is used to enter Edit status. Card-holder password is used to open the door in the password or card+password door-open mode,they are the same use.

7.5.1 Modify administrator password
Default administrator password is 000000, if two inputs are inconsistent, the device will automatically return to the higher-lever menu.

7.5.2 Modify card-holder password
Card-holder password can be applied in both the password and the card+password door-open mode. In the "Screen door-open password"mode,password only is ineffective for opening door.(the initial value is empty)